Cabot Oil & Gas Corporation

July 13, 2016

Mr. William F. Durham
Director
West Virginia Department of Environmental Protection
Division of Air Quality
601 57th Street
Charleston, West Virginia 25304

Re: Heizer Compressor Station Title V Renewal Application
Cranberry Pipeline Corporation
DAQ Plant ID No. 079-00046
Permit Number R30-0790046-2012
Putnam County, West Virginia

Dear Mr. Durham:

Cranberry Pipeline Corporation (Cranberry) hereby submits this Title V Permit Renewal Application for the Heizer Compressor Station located in Putnam County, West Virginia. Cranberry has prepared the attached application in accordance WVDEP guidance and forms. The application is being submitted 6 months prior to the permit expiration date of January 23, 2017 in accordance 45 CSR §30-4.1.a.3. All previously approved modifications made during this Title V Permit term have been incorporated. This application is not requesting any additional modifications.

Cranberry appreciates your review and expedited issuance of the permit. Should you have any questions, please contact Mr. Brandon Bush, at 281-589-4809 or via email at brandon.bush@cabotog.com.

Regards,

Brody Webster

Safety and Environmental Manager

cc Mr. Phillip Hill, Cabot Oil & Gas – via email
Regional File
Corporate File

TITLE V AIR PERMIT RENEWAL APPLICATION

HEIZER COMPRESSOR STATION

PUTNAM COUNTY, WEST VIRGINIA

DAQ PLANT ID NO. 079-00046

Prepared By:

CABOT OIL & GAS CORPORATION

Environmental, Health, and Safety

840 Gessner Road, Suite 1400

Houston, Texas 77024

281-589-4600

July 2016

Table of Contents

Notes:

Attachment F - Not included. Source is in compliance with all facility-wide applicable requirements.

I. Introduction

Cranberry Pipeline Corporation (Cranberry) is submitting this application to renew the Title V Permit, identified as permit R30-07900046-2012, for Heizer Compressor Station (the Facility). The facility is a natural gas compressor station located in Putnam County, WV that compresses natural gas from wells and/or upstream compressor stations and transmits it down the Cranberry pipeline, a Section 311 intrastate pipeline, or sends it to storage. The facility is a Title V major source due to having the Potential to Emit greater than 100 T/yr NOx and is therefore subject to WVDEP Regulation 45 CSR Part 30 as well as the underlying State Operating Permit (Rule 13 Permit No. R13-2694E). The facility is an area source of hazardous air pollutants (HAPs) since the potential to emit is less than 10 T/yr of any individual HAPs and less than 25 T/yr of combined HAPs. Process Description

As natural gas enters the facility it is compressed to a higher pressure by two (2) engines at the site that are fired by pipeline quality natural gas:

Emission Unit ID	Emission Unit Description	Design Capacity	Year Installed/Modified
1S	Cooper Reciprocating Engine, 2SLB	880 hp	1967
#2	Clark Reciprocating Engine, 2SLB	440 hp	1967

Once the gas is compressed it is sent to the Triethylene Glycol (TEG) Dehydrator (Dehy) to remove moisture and impurities. The natural gas contacts the TEG in the dehydrator column. The TEG in the column becomes "rich" with the moisture, impurities, and small amount of hydrocarbon that has been absorbed. The rich glycol is cycled through the reboiler (4S) where the moisture and hydrocarbon vapors are liberated from the glycol and the lean glycol is then recycled into the Dehy contactor. The vapors that are produced by reboiler then enter the Jatco BTEX condenser (1C) and are cooled and fall out as pipeline fluids. Pipeline fluids are held in Drip Tank No. 1 (AT01). The dry natural gas exits the dehy column and is sent down the pipeline or to storage.

The facility employs a 95 hp natural gas-fired SI RICE Generator Engine for backup power generation (EG-1). The facility also contains tanks for the storage of lube oil, used oil, and antifreeze that are considered insignificant sources.

II. Project Description

The last renewal to the Heizer Title V Air Permit was issued on January 23, 2012 effectively making this renewal application due by July 23, 2016. During the permit term a significant modification was approved under 45SCR30 and 45SCR13. However, the project changes never occurred and the facility remains operationally identical to the process represented in the January 2012 Title V permit. The two modifications are summarized below:

Minor Modification approved June 25, 2013 – SM01

This modification authorized the following:

- Replace the 440 hp Clark compressor engine with an 1,100 hp White Superior Compressor Engine
- Replace the Reboiler and decrease the throughput of natural gas to the TEG Dehy

Permit Update approved December 3, 2015

The changes authorized in the 2013 significant modification were rescinded. The project represented in the 2013 application was never executed.

III. Applicable Federal Rule Analysis

This section will summarize the requirements for applicable federal rules. A comprehensive list of requirements is provided in the general forms and Attachment E.

40 CFR 60, Subpart A

The facility is subject to various categorical source standards under the New Source Performance Standards (NSPS); therefore, is subject to the applicable requirements under 40 CFR 60, Subpart A.

NSPS 40 CFR 60, Subpart JJJJ

Subpart JJJJ applies to manufacturers, owners, and operators of stationary spark ignition internal combustion engines of various manufacture dates that commenced construction after June 12, 2006. The facility does not operate an engine which meets the applicability criteria, therefore, this subpart does not apply.

NSPS 40 CFR 60, Subpart OOOO

Subpart OOOO potentially applies to various equipment at oil and gas production, processing, and/or transmission facilities constructed, modified, or reconstructed after August 23, 2011. This facility does not contain emission sources that have been modified after August 23, 2011; therefore, this subpart does not apply.

40 CFR 61, Subpart A

The facility is not subject to any NESHAP requirements; therefore, 40 CFR 61, Subpart A will not apply.

40 CFR 63, Subpart A

The facility is subject to 40 CFR 63 Subparts HH and ZZZZ; therefore, any applicable requirements of 40 CFR 63, Subpart A will apply.

40 CFR 63, Subpart HH

Subpart HH applies to major sources or area sources of HAPs from oil and natural gas production facilities. The Facility is an area source of HAPs and operates the TEG dehydration unit which is an affected source under subject to the requirements under 40 CFR 63 §63.760(b)(2). The facility has permit conditions listed in the Title V permit that require the TEG dehydration implement the standards of Subpart HH for TEG dehydration units located at an area source of HAP emissions The Facility will continue to comply with applicable regulatory requirements.

MACT 40 CFR 63, Subpart HHH

Subpart HHH applies to major sources of HAPs from natural gas transmission and storage facilities. The Facility is not considered a major source of HAPs; therefore, this subpart does not apply.

MACT 40 CFR 63, Subpart ZZZZ

Subpart ZZZZ applies to stationary reciprocating internal combustion engines ("RICE") located at major and area sources of HAP emissions. All three engines, 1S, #2, and EG-1; at the site are existing remote RICE located at an area source of HAP emission, and therefore, are subject to the maintenance and operating requirements of Subpart ZZZZ. The engines 1S and #2 are two-stroke lean burn engines located at an area source of HAPs, and are therefore subject to the maintenance requirement outlined in item 6 of Table 2d of the ZZZZ rule. The emergency generator, EG-1 is subject to the maintenance requirements for emergency stationary SI RICE outlined in item 5 of Table 2d of the rule. The facility currently operates in compliance with Subpart ZZZZ requirements as mandated under the current Title V permit in effect, namely, condition 3.1.11 a through d and will continue to comply with such requirements.

General Forms

WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR QUALITY
601 57th Street SE
Charleston, WV 25304
Phone: (304) 926-0475
www.dep.wv.gov/daq

INITIAL/RENEWAL TITLE V PERMIT APPLICATION - GENERAL FORMS

Section 1: General Information

1. **Name of Applicant (As registered with the WV Secretary of State's Office):**
Cranberry Pipeline Corporation

2. Facility Name or Location:
Heizer Compresssor Station

3. DAQ Plant ID No.:
0 7 9 — 0 0 0 4 6

4. Federal Employer ID No. (FEIN):
0 4 2 9 8 9 9 3 4

5. **Permit Application Type:**

☐ Initial Permit — When did operations commence? 1967
☒ Permit Renewal — What is the expiration date of the existing permit? 01/22/2017
☐ Update to Initial/Renewal Permit Application

6. Type of Business Entity:

☒ Corporation ☐ Governmental Agency ☐ LLC
☐ Partnership ☐ Limited Partnership

7. Is the Applicant the:

☐ Owner ☐ Operator ☒ Both

If the Applicant is not both the owner and operator, please provide the name and address of the other party.

8. Number of onsite employees:
0

9. Governmental Code:

☒ Privately owned and operated; 0
☐ Federally owned and operated; 1
☐ State government owned and operated; 2
☐ County government owned and operated; 3
☐ Municipality government owned and operated; 4
☐ District government owned and operated; 5

10. Business Confidentiality Claims

Does this application include confidential information (per 45CSR31)? ☐ Yes ☒ No

If yes, identify each segment of information on each page that is submitted as confidential, and provide justification for each segment claimed confidential, including the criteria under 45CSR§31-4.1, and in accordance with the DAQ's *"PRECAUTIONARY NOTICE-CLAIMS OF CONFIDENTIALITY"* guidance.

11. Mailing Address		
Street or P.O. Box: 900 Lee Street East Suite 1500		
City: Charleston	**State:** WV	**Zip:** 25301-
Telephone Number: (304) 347-1600	**Fax Number:** (304) 347-1618	

12. Facility Location		
Street: Heizer Creek Road (CR 27)	**City:** Poca	**County:** Putnam
UTM Easting: 432.48 km	**UTM Northing:** 4,263.99 km	**Zone:** ☒ 17 or ☐ 18
Directions: Traveling N on SR62, take a right on CR217, Heizer Creek Road, travel approximately 5.4 miles, station is located on left.		
Portable Source? ☐ Yes ☒ No		
Is facility located within a nonattainment area? ☐ Yes ☒ No		**If yes, for what air pollutants?**
Is facility located within 50 miles of another state? ☒ Yes ☐ No		**If yes, name the affected state(s).** Ohio Kentucky
Is facility located within 100 km of a Class I Area[1]? ☐ Yes ☒ No **If no, do emissions impact a Class I Area[1]?** ☐ Yes ☒ No		**If yes, name the area(s).**
[1] *Class I areas include Dolly Sods and Otter Creek Wilderness Areas in West Virginia, and Shenandoah National Park and James River Face Wilderness Area in Virginia.*		

13. Contact Information		
Responsible Official: Brody Webster		**Title:** Safety and Environmental Manager
Street or P.O. Box: 900 East Lee Street, Suite 1500		
City: Charleston	**State:** WV	**Zip: 25301-**
Telephone Number: (304) 347-1642	**Fax Number:** (304) 347-1618	
E-mail address: brody.webster@cabotog.com		
Environmental Contact: Brody Webster		**Title:** Safety and Environmental Manager
Street or P.O. Box: 900 East Lee Street, Suite 1500		
City: Charleston	**State:** WV	**Zip: 25301-**
Telephone Number: (304) 347-1642	**Fax Number:** (304) 347-1618	
E-mail address: brody.webster@cabotog.com		
Application Preparer: Brandon Bush		**Title:** Sr Air Compliance Specialist
Company: Cabot Oil & Gas Corporation		
Street or P.O. Box: 840 Gessner Rd, Ste 1400		
City: Houston	**State:** TX	**Zip: 77024-**
Telephone Number: (281) 589-4809	**Fax Number:** (281) 589-4694	
E-mail address: Brandon.bush@cabotog.com		

14. Facility Description

List all processes, products, NAICS and SIC codes for normal operation, in order of priority. Also list any process, products, NAICS and SIC codes associated with any alternative operating scenarios if different from those listed for normal operation.

Process	Products	NAICS	SIC
Natural Gas Processing	Natural Gas	211111	1311
Natural Gas Storage	Natural Gas	486210	4922

Provide a general description of operations.

The Heizer Compressor Station is a natural gas transmission facility which consists of a triethylene glycol (TEG) dehydrator, a dehydrator reboiler, a 440 hp natural gas-fired compressor engine, and 880 hp natural gas fired compressor engine, and four (4) storage tanks (2,100 gallon pipeline fluid, 3,000 gallon new oil, 1,050 gallon used oil, and a 1,050 gallon anti-freeze). The TEG dehydrator has a JATCO BTEX Eliminator (1C) acting as a control device that is used to capture and recycle BTEX and VOC vapors from the TEG Dehydration Unit (005). The rich (wet) TEG from the bottom of the dehydration unit contact tower is used as the coolant in the BTEX eliminator prior to its being regenerated in the Reboiler (004). The reboiler regenerates the rich TEG for reuse in the dehydration unit by boiling off the water through a still vent. The still vent emissions, which contain steam along with VOCs and BTEX, are routed to the BTEX eliminator where the steam is condensed and the VOC and BTEX vapors are injected into the reboiler burner. If the reboiler burner is not operating, the VOC and BTEX vapors are sent to the reboiler exhaust stack where they are combusted.

15. Provide an **Area Map** showing plant location as **ATTACHMENT A.**

16. Provide a **Plot Plan(s)**, e.g. scaled map(s) and/or sketch(es) showing the location of the property on which the stationary source(s) is located as **ATTACHMENT B.** For instructions, refer to "Plot Plan - Guidelines."

17. Provide a detailed **Process Flow Diagram(s)** showing each process or emissions unit as **ATTACHMENT C.** Process Flow Diagrams should show all emission units, control equipment, emission points, and their relationships.

Section 2: Applicable Requirements

18. Applicable Requirements Summary	
Instructions: Mark all applicable requirements.	
☒ SIP	☐ FIP
☒ Minor source NSR (45CSR13)	☐ PSD (45CSR14)
☒ NESHAP (45CSR34)	☐ Nonattainment NSR (45CSR19)
☒ Section 111 NSPS	☐ Section 112(d) MACT standards
☐ Section 112(g) Case-by-case MACT	☐ 112(r) RMP
☐ Section 112(i) Early reduction of HAP	☐ Consumer/commercial prod. reqts., section 183(e)
☐ Section 129 Standards/Reqts.	☐ Stratospheric ozone (Title VI)
☐ Tank vessel reqt., section 183(f)	☐ Emissions cap 45CSR§30-2.6.1
☐ NAAQS, increments or visibility (temp. sources)	☐ 45CSR27 State enforceable only rule
☒ 45CSR4 State enforceable only rule	☐ Acid Rain (Title IV, 45CSR33)
☐ Emissions Trading and Banking (45CSR28)	☒ Compliance Assurance Monitoring (40CFR64)
☐ CAIR NO_x Annual Trading Program (45CSR39)	☐ CAIR NO_x Ozone Season Trading Program (45CSR40)
☐ CAIR SO_2 Trading Program (45CSR41)	

19. Non Applicability Determinations

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

40 CFR Part 63 Subpart HH – This facility if not a transmission facility, therefore this subpart does not apply.

40 CFR Part 63 Subpart HHH – This facility if not a major source of HAPs, therefore this subpart does not apply.

40 CFR Subpart KKK – This facility is not involved in the extraction or fractionation of natural gas

40 CFR 60 Subpart LLL – This facility does not employ a sweetening or sulfur recovery unit.

40 CFR Subpart Dc – The reboiler at this facility is below 10 MMBTu/hr

40 CFR Subpart DDDDD – Reboiler PTE of HAPs is below 10 T/yr of individual HAPs or 25 T/yr of aggregate HAPs

40 CFR 60 Subpart GG – This facility does not operate turbines.

40 CFR 60 Subpart KKKK – This facility does not operate turbines.

PSD (45SCR14) – This facility's potential emissions are below 250 T/yr

PSD (45SCR19) – The facility is in Poca County which is an attainment area.

45SCR27 – The facility does not meet the definition of a chemical processing unit because the equipment does not produce or contact material containing more than 5% benzene by weight.

40 CFR 60 Subpart K – All tanks are below 40,000 gallon capacity

40 CFR 60 Subpart Ka – All tanks are below 40,000 gallon capacity

Section 111 NSPS – 40 CFR 60 Subpart Kb – The facility has no storage vessels greater the 75 cubic meters.

40 CFR 60 Subpart JJJJ – The compressor engines are not subject to this subpart since they were manufactured prior to the applicability date.

40 CFR 64 – The dehy unit (Dehy) and compressor engines CE-5 and CE-6 are not applicable to CAM since the dehy is subject to NESHAP Subpart HH and the compressor engines are subject to MACT Subpart ZZZZ which have provisions for compliance monitoring established after 1990, (exemption per 64.2(b)(1)(i)).

40 CFR 60 Subpart OOOO – The tanks do not meet the applicability requirements of 40 CFR 60.5365(e).

☐ Permit Shield

19. Non Applicability Determinations *(Continued)* - *Attach additional pages as necessary.*

List all requirements which the source has determined not applicable and for which a permit shield is requested. The listing shall also include the rule citation and the reason why the shield applies.

☐ Permit Shield

20. Facility-Wide Applicable Requirements

List all facility-wide applicable requirements. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*).

45 CSR 6-3.1 – Open Burning prohibited (TV 3.1.1)

45 CSR 6-3.2 – Open Burning exemption (TV 3.1.2)

40 CFR Part 61.145(b) and 45 CSR 34 – Asbestos inspection and removal (TV 3.1.3)

45 CSR 4 – Odor (TV 3.1.4)

45 CSR 11-5.2 – Standby plans for emergency episodes (TV 3.1.5)

WV Code 22-5-4(a)(14) – Annual Emissions Inventory Reporting (TV 3.1.6)

40 CFR Subpart 82, Subpart F – Ozone depleting substances (TV 3.1.7)

40 CFR 68 – Risk Management Plan (TV 3.1.8)

State Only: 45 CSR 17-3.1 – Fugitive Particulate Matter (TV 3.1.9)

45 CSR 13, R13-2694, 4.1.2 – Minor Source of Hazardous Air Pollutants (HAP) (TV 3.1.10)

40 CFR 63 Subpart ZZZZ – Requirements of 40 CFR 63 Subpart ZZZZ (TV3.1.11)

40 CFR 63.6625 – Monitoring Requirements (TV 3.2.1)

WV 22-5-4(a)(14-15) and 45SCR13 – Testing Requirements (TV 3.3)

45 CSR 30 – Recordkeeping Requirements (TV 3.4)

45 CSR 30 – Reporting Requirements (TV 3.5)

45CSR 30 – Emergency Operating Scenario (TV3.8)

☐ Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing / recordkeeping / reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

45 CSR 6-3.1 – The permittee shall prohibit open burning (TV 3.1.1)

45 CSR 6-3.2 – The permittee shall notify if open burning occurs (TV 3.1.2)

40 CFR Part 61.145(b) and 45 CSR 34 – Prior to demolition/construction buildings will be inspected for asbestos (TV 3.1.3)

45 CSR 4 – Permittee shall maintain records of all odor complaints received (TV 3.1.4)

45 CSR 11-5.2 – Upon request by the Secretary, the permittee shall prepare a standby plan (TV 3.1.5)

WV Code 22-5-4(a)(14) – The permittee shall submit Annual Emissions Inventory reports (TV 3.1.6)

40 CFR Subpart 82, Subpart F – The permittee will prohibit maintenance, service, or repair of appliances containing ozone depleting substances (TV 3.1.7)

40 CFR 68 – Should the permittee become subject to 40 CFR Part 68, a RMP shall be submitted (TV 3.1.8)

State Only: 45 CSR 17-3.1 – The permittee will limit fugitive emissions from the facility by burning only pipeline quality natural gas (TV 3.1.9)

45 CSR 13, R13-2694, 4.1.2 – The permittee shall limit HAP emissions from the facility to less than 10 tons/year of any single HAP and 25 tons/year of any combination of HAPs. (TV 3.1.10)

40 CFR 63 Subpart ZZZZ – The permittee shall operate engines #1 and # 2 in accordance with the ZZZZ requirements for two-stroke lean burn engines at an area source of HAP. (TV 3.1.11)

WV 22-5-4(a)(14-15) and 45SCR13 – Testing Requirements (TV 3.3.1)

40 CFR 63.6625 – The permittee shall comply with the monitoring, installation, collection, operation and maintenance requirements of 40 CFR 63.6625(e), (h), and (j) (TV 3.2.1)

WV 22-5-4(a)(14-15) and 45SCR13 – Testing Requirements (TV 3.3.1)

45 CSR 30 – Recordkeeping Requirements (TV 3.4)

45 CSR 30 – Reporting Requirements (TV 3.5)

45CSR 30 – Emergency Operating Scenario (TV3.8)

Are you in compliance with all facility-wide applicable requirements? ☒ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

20. Facility-Wide Applicable Requirements ***(Continued)*** *- Attach additional pages as necessary.*

List all facility-wide applicable requirements. For each applicable requirement, include the rule citation and/or permit with the condition number.

☐ Permit Shield

For all facility-wide applicable requirements listed above, provide monitoring/testing/recordkeeping/ reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number and/or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

Are you in compliance with all facility-wide applicable requirements? ☐ Yes ☐ No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F.**

21. Active Permits/Consent Orders		
Permit or Consent Order Number	Date of Issuance MM/DD/YYYY	List any Permit Determinations that Affect the Permit *(if any)*
R30-07900046-2012	01/23/2012	
R1302694B	08/17/2010	
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22. Inactive Permits/Obsolete Permit Conditions		
Permit Number	Date of Issuance	Permit Condition Number
R13-2694C	06/25/2013	
R13-2694	03/27/2007	
R13-2694A	06/14/2010	
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Section 3: Facility-Wide Emissions

23. Facility-Wide Emissions Summary [Tons per Year]	
Criteria Pollutants	Potential Emissions
Carbon Monoxide (CO)	15.76
Nitrogen Oxides (NO_X)	156.20
Lead (Pb)	-
Particulate Matter ($PM_{2.5}$)[1]	-
Particulate Matter (PM_{10})[1]	-
Total Particulate Matter (TSP)	-
Sulfur Dioxide (SO_2)	0.029
Volatile Organic Compounds (VOC)	13.97
Hazardous Air Pollutants[2]	Potential Emissions
Benzene	0.315
Ethylbenzene	0.003
Toluene	0.12
Xylene	0.022
Hexane	0.05
Formaldehyde	3.350
Regulated Pollutants other than Criteria and HAP	Potential Emissions

[1] $PM_{2.5}$ and PM_{10} are components of TSP.
[2] For HAPs that are also considered PM or VOCs, emissions should be included in both the HAPs section and the Criteria Pollutants section.

Section 4: Insignificant Activities

24. Insignificant Activities (Check all that apply)		
☒	1.	Air compressors and pneumatically operated equipment, including hand tools.
☒	2.	Air contaminant detectors or recorders, combustion controllers or shutoffs.
☒	3.	Any consumer product used in the same manner as in normal consumer use, provided the use results in a duration and frequency of exposure which are not greater than those experienced by consumer, and which may include, but not be limited to, personal use items; janitorial cleaning supplies, office supplies and supplies to maintain copying equipment.
☒	4.	Bathroom/toilet vent emissions.
☒	5.	Batteries and battery charging stations, except at battery manufacturing plants.
☒	6.	Bench-scale laboratory equipment used for physical or chemical analysis, but not lab fume hoods or vents. Many lab fume hoods or vents might qualify for treatment as insignificant (depending on the applicable SIP) or be grouped together for purposes of description.
☐	7.	Blacksmith forges.
☐	8.	Boiler water treatment operations, not including cooling towers.
☒	9.	Brazing, soldering or welding equipment used as an auxiliary to the principal equipment at the source.
☐	10.	CO_2 lasers, used only on metals and other materials which do not emit HAP in the process.
☒	11.	Combustion emissions from propulsion of mobile sources, except for vessel emissions from Outer Continental Shelf sources.
☒	12.	Combustion units designed and used exclusively for comfort heating that use liquid petroleum gas or natural gas as fuel.
☒	13.	Comfort air conditioning or ventilation systems not used to remove air contaminants generated by or released from specific units of equipment.
☐	14.	Demineralized water tanks and demineralizer vents.
☐	15.	Drop hammers or hydraulic presses for forging or metalworking.
☐	16.	Electric or steam-heated drying ovens and autoclaves, but not the emissions from the articles or substances being processed in the ovens or autoclaves or the boilers delivering the steam.
☐	17.	Emergency (backup) electrical generators at residential locations.
☒	18.	Emergency road flares.
☒	19.	Emission units which do not have any applicable requirements and which emit criteria pollutants (CO, NO_x, SO_2, VOC and PM) into the atmosphere at a rate of less than 1 pound per hour and less than 10,000 pounds per year aggregate total for each criteria pollutant from all emission units. Please specify all emission units for which this exemption applies along with the quantity of criteria pollutants emitted on an hourly and annual basis: TANK 1 – drip gas tank – 0.002 lb/hr, 0.068 T/yr TANK 2 – new oil – 0.00004 lb/hr, 0.00017 T/yr TANK 3 – used oil – 0.000015 lb/hr, 0.000065 T/yr Tanks 4 – antifreeze – 0.000001 lb/hr, 0.000005 T/yr EG-1 – Emergency Engine – 0.69 lb/hr, 0.18 T/yr _____ _____ _____ _____

24. Insignificant Activities (Check all that apply)		
☐	20.	Emission units which do not have any applicable requirements and which emit hazardous air pollutants into the atmosphere at a rate of less than 0.1 pounds per hour and less than 1,000 pounds per year aggregate total for all HAPs from all emission sources. This limitation cannot be used for any source which emits dioxin/furans nor for toxic air pollutants as per 45CSR27. Please specify all emission units for which this exemption applies along with the quantity of hazardous air pollutants emitted on an hourly and annual basis: _____ _____ _____ _____ _____
☐	21.	Environmental chambers not using hazardous air pollutant (HAP) gases.
☐	22.	Equipment on the premises of industrial and manufacturing operations used solely for the purpose of preparing food for human consumption.
☐	23.	Equipment used exclusively to slaughter animals, but not including other equipment at slaughterhouses, such as rendering cookers, boilers, heating plants, incinerators, and electrical power generating equipment.
☐	24.	Equipment used for quality control/assurance or inspection purposes, including sampling equipment used to withdraw materials for analysis.
☐	25.	Equipment used for surface coating, painting, dipping or spray operations, except those that will emit VOC or HAP.
☒	26.	Fire suppression systems.
☐	27.	Firefighting equipment and the equipment used to train firefighters.
☐	28.	Flares used solely to indicate danger to the public.
☐	29.	Fugitive emission related to movement of passenger vehicle provided the emissions are not counted for applicability purposes and any required fugitive dust control plan or its equivalent is submitted.
☐	30.	Hand-held applicator equipment for hot melt adhesives with no VOC in the adhesive formulation.
☒	31.	Hand-held equipment for buffing, polishing, cutting, drilling, sawing, grinding, turning or machining wood, metal or plastic.
☐	32.	Humidity chambers.
☐	33.	Hydraulic and hydrostatic testing equipment.
☐	34.	Indoor or outdoor kerosene heaters.
☐	35.	Internal combustion engines used for landscaping purposes.
☐	36.	Laser trimmers using dust collection to prevent fugitive emissions.
☐	37.	Laundry activities, except for dry-cleaning and steam boilers.
☐	38.	Natural gas pressure regulator vents, excluding venting at oil and gas production facilities.
☐	39.	Oxygen scavenging (de-aeration) of water.
☐	40.	Ozone generators.

24. Insignificant Activities (Check all that apply)		
☒	41.	Plant maintenance and upkeep activities (e.g., grounds-keeping, general repairs, cleaning, painting, welding, plumbing, re-tarring roofs, installing insulation, and paving parking lots) provided these activities are not conducted as part of a manufacturing process, are not related to the source's primary business activity, and not otherwise triggering a permit modification. (Cleaning and painting activities qualify if they are not subject to VOC or HAP control requirements. Asphalt batch plant owners/operators must still get a permit if otherwise requested.)
☐	42.	Portable electrical generators that can be moved by hand from one location to another. "Moved by Hand" means that it can be moved without the assistance of any motorized or non-motorized vehicle, conveyance, or device.
☐	43.	Process water filtration systems and demineralizers.
☒	44.	Repair or maintenance shop activities not related to the source's primary business activity, not including emissions from surface coating or de-greasing (solvent metal cleaning) activities, and not otherwise triggering a permit modification.
☐	45.	Repairs or maintenance where no structural repairs are made and where no new air pollutant emitting facilities are installed or modified.
☐	46.	Routing calibration and maintenance of laboratory equipment or other analytical instruments.
☐	47.	Salt baths using nonvolatile salts that do not result in emissions of any regulated air pollutants. Shock chambers.
☐	48.	Shock chambers.
☐	49.	Solar simulators.
☐	50.	Space heaters operating by direct heat transfer.
☐	51.	Steam cleaning operations.
☐	52.	Steam leaks.
☐	53.	Steam sterilizers.
☐	54.	Steam vents and safety relief valves.
☐	55.	Storage tanks, reservoirs, and pumping and handling equipment of any size containing soaps, vegetable oil, grease, animal fat, and nonvolatile aqueous salt solutions, provided appropriate lids and covers are utilized.
☐	56.	Storage tanks, vessels, and containers holding or storing liquid substances that will not emit any VOC or HAP. Exemptions for storage tanks containing petroleum liquids or other volatile organic liquids should be based on size limits such as storage tank capacity and vapor pressure of liquids stored and are not appropriate for this list.
☐	57.	Such other sources or activities as the Director may determine.
☒	58.	Tobacco smoking rooms and areas.
☐	59.	Vents from continuous emissions monitors and other analyzers.

Section 5: Emission Units, Control Devices, and Emission Points

25. Equipment Table
Fill out the **Title V Equipment Table** and provide it as **ATTACHMENT D**.
26. Emission Units
For each emission unit listed in the **Title V Equipment Table**, fill out and provide an **Emission Unit Form** as **ATTACHMENT E**.
For each emission unit not in compliance with an applicable requirement, fill out a **Schedule of Compliance Form** as **ATTACHMENT F**.
27. Control Devices
For each control device listed in the **Title V Equipment Table**, fill out and provide an **Air Pollution Control Device Form** as **ATTACHMENT G**.
For any control device that is required on an emission unit in order to meet a standard or limitation for which the potential pre-control device emissions of an applicable regulated air pollutant is greater than or equal to the Title V Major Source Threshold Level, refer to the **Compliance Assurance Monitoring (CAM) Form(s)** for CAM applicability. Fill out and provide these forms, if applicable, for each Pollutant Specific Emission Unit (PSEU) as **ATTACHMENT H**.

Section 6: Certification of Information

28. Certification of Truth, Accuracy and Completeness and Certification of Compliance

*Note: This Certification must be signed by a responsible official. The **original**, signed in **blue ink**, must be submitted with the application. Applications without an **original** signed certification will be considered as incomplete.*

a. Certification of Truth, Accuracy and Completeness

I certify that I am a responsible official (as defined at 45CSR§30-2.38) and am accordingly authorized to make this submission on behalf of the owners or operators of the source described in this document and its attachments. I certify under penalty of law that I have personally examined and am familiar with the statements and information submitted in this document and all its attachments. Based on my inquiry of those individuals with primary responsibility for obtaining the information, I certify that the statements and information are to the best of my knowledge and belief true, accurate, and complete. I am aware that there are significant penalties for submitting false statements and information or omitting required statements and information, including the possibility of fine and/or imprisonment.

b. Compliance Certification

Except for requirements identified in the Title V Application for which compliance is not achieved, I, the undersigned hereby certify that, based on information and belief formed after reasonable inquiry, all air contaminant sources identified in this application are in compliance with all applicable requirements.

Responsible official (type or print)

Name: Brody Webster	Title: Safety and Environmental Manager

Responsible official's signature:

Signature: _____ Signature Date: 7/18/16

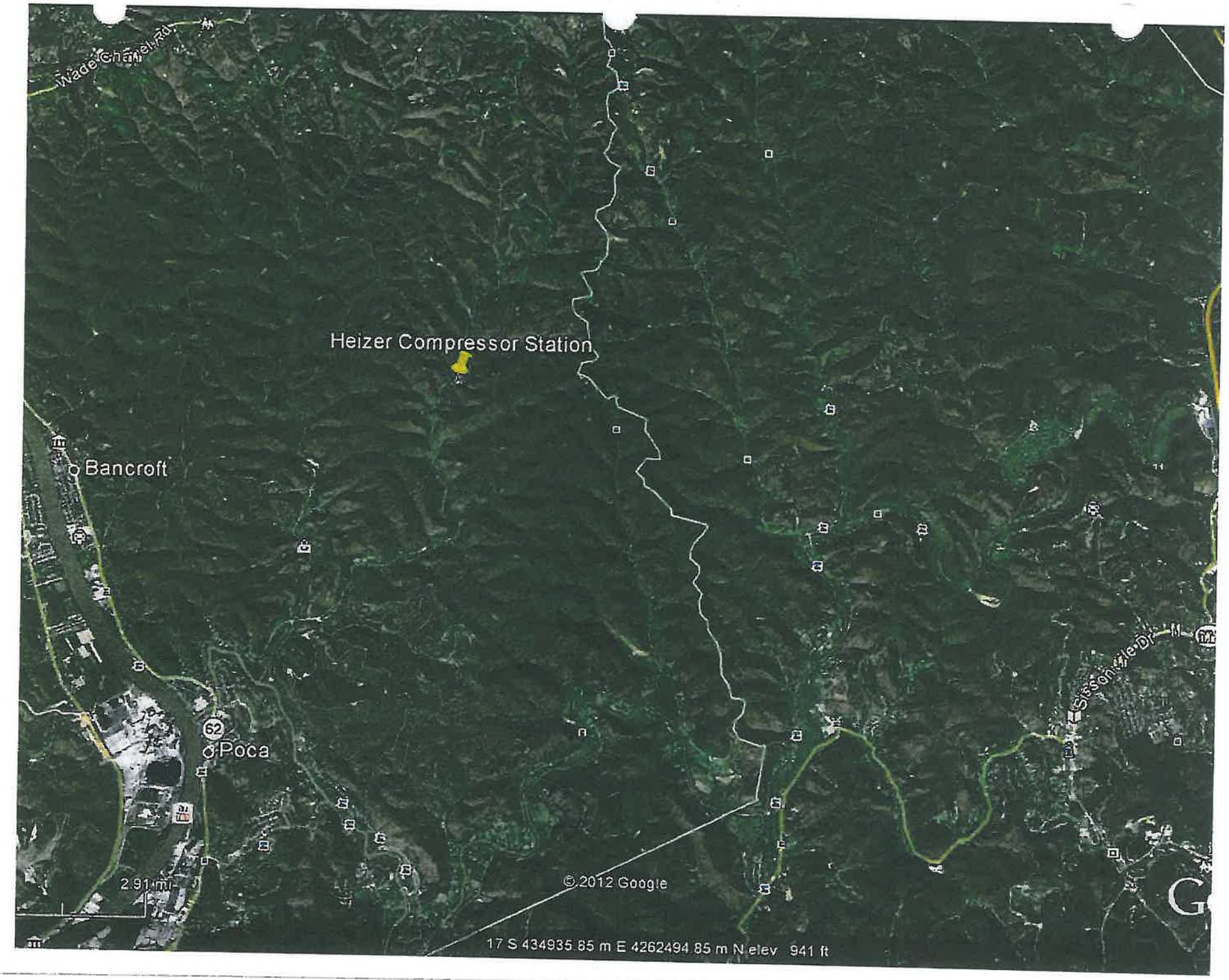
(Must be signed and dated in blue ink)

Note: Please check all applicable attachments included with this permit application:	
☒	ATTACHMENT A: Area Map
☒	ATTACHMENT B: Plot Plan(s)
☒	ATTACHMENT C: Process Flow Diagram(s)
☒	ATTACHMENT D: Equipment Table
☒	ATTACHMENT E: Emission Unit Form(s)
☐	ATTACHMENT F: Schedule of Compliance Form(s)
☒	ATTACHMENT G: Air Pollution Control Device Form(s)
☐	ATTACHMENT H: Compliance Assurance Monitoring (CAM) Form(s)

All of the required forms and additional information can be found and downloaded from, the DEP website at www.dep.wv.gov/daq, requested by phone (304) 926-0475, and/or obtained through the mail.

ATTACHMENT A

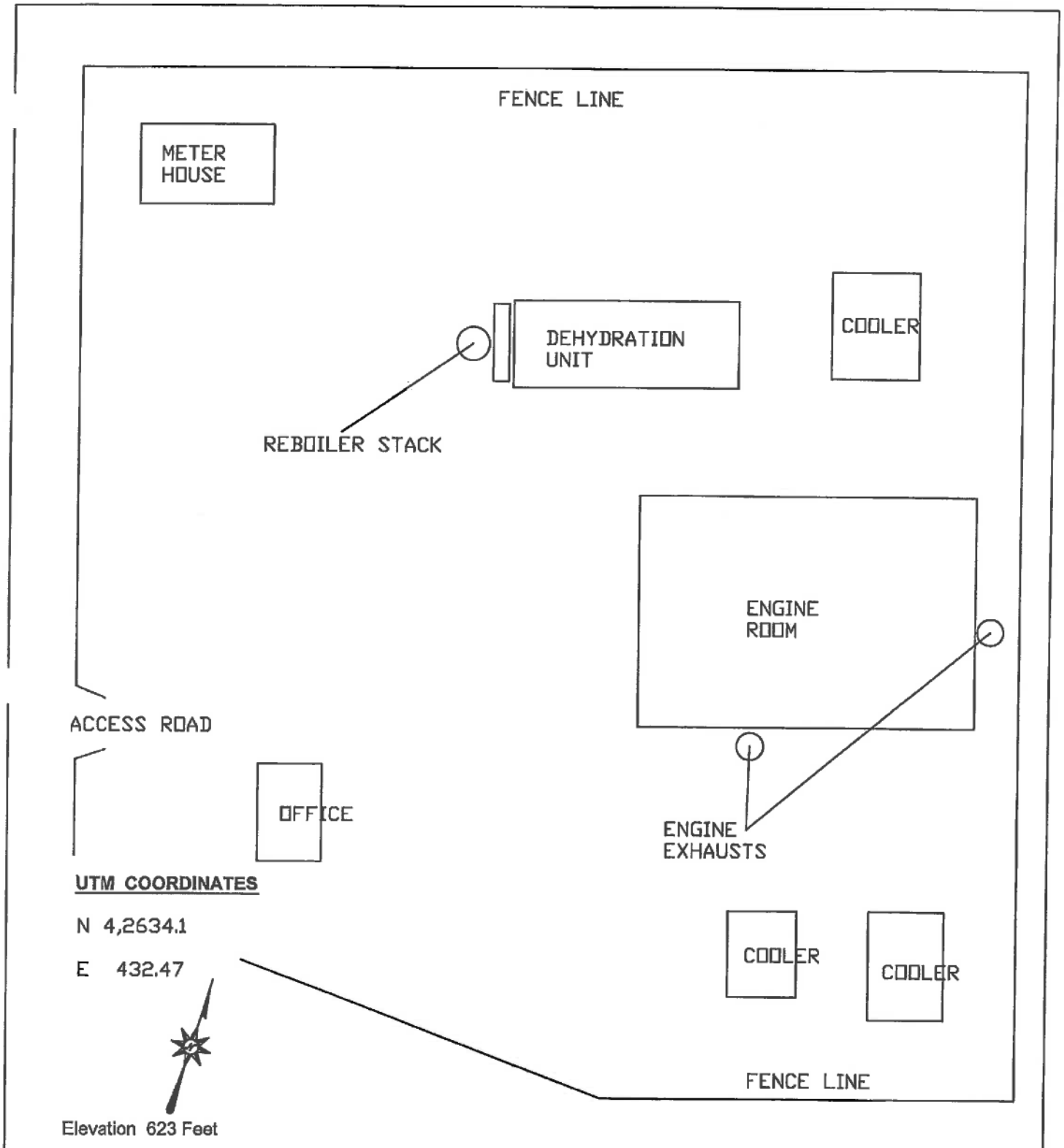
Area Map


Wade Chapel Rd
Heizer Compressor Station
Bancroft
62
Poca
2.91 mi
©2012 Google
17 S 434935.65 m E 4262494.85 m N elev 941 ft


Heizer Compressor Station
Heizer Creek Rd
98 ft
1990
© 2012 Google
17 S 432471.98 m E 4264102.56 m N elev 623 ft

ATTACHMENT B

Plot Plan



	HEIZER COMPRESSOR STATION PLOT PLAN	SLR INTERNATIONAL CORPORATION 900 LEE STREET EAST SUITE 500 CHARLESTON, WV 25301
	CRANBERRY PIPELINE CORPORATION POCA, WEST VIRGINIA	SCALE: NTS PROJECT NUMBER 116.00400.00032 SHT. NO. 1 OF 1

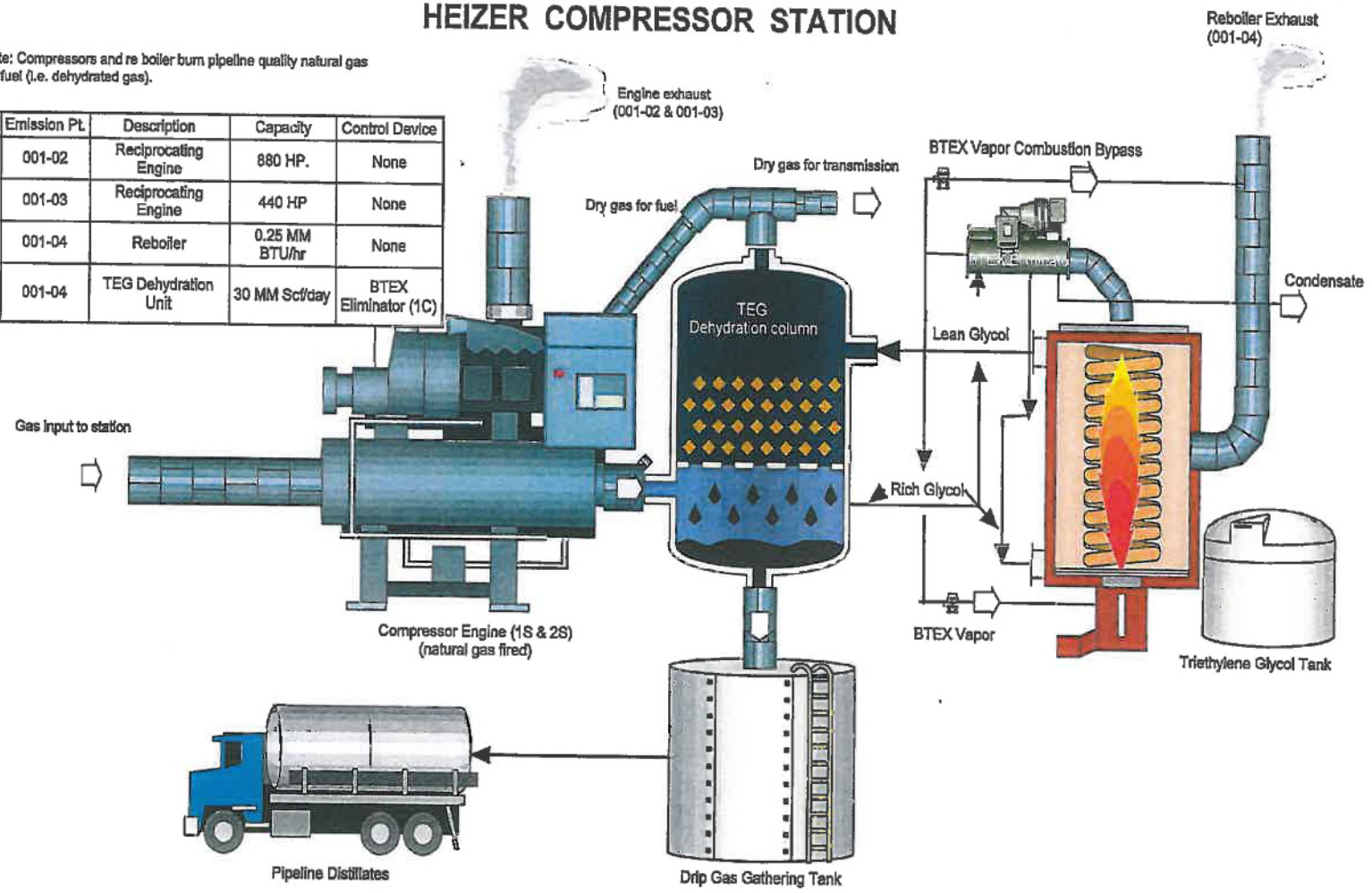
ATTACHMENT C

Process Flow Diagram

HEIZER COMPRESSOR STATION

Note: Compressors and re boiler burn pipeline quality natural gas for fuel (i.e. dehydrated gas).

source ID	Emission Pt.	Description	Capacity	Control Device
1S	001-02	Reciprocating Engine	880 HP.	None
2S	001-03	Reciprocating Engine	440 HP	None
4S	001-04	Reboiler	0.25 MM BTU/hr	None
5S	001-04	TEG Dehydration Unit	30 MM Scf/day	BTEX Eliminator (1C)



SLR	Heizer Compressor Station Cranberry Pipeline Poca, WV
PROCESS FLOW DIAGRAM	Job No: 116.00400.00032

ATTACHMENT D

Equipment Table

ATTACHMENT D - Title V Equipment Table

(includes all emission units at the facility except those designated as insignificant activities in Section 4, Item 24 of the General Forms)

Emission Point ID[1]	Control Device[1]	Emission Unit ID[1]	Emission Unit Description	Design Capacity	Year Installed/ Modified
001-02	N/A	1S*	Cooper Reciprocating Engine, 2SLB	880 HP	1967
001-03	N/A	#2*	Clark Reciprocating Engine, 2SLB	440 HP	1967
001-04	N/A	4S*	BS&B Dehydrator Reboiler	0.25 MMBtu/hr	1968/2009
001-04	1C	5S*	BS&B Still Column	70 MMscf/day	1968/2009
001-04	1C	-	JATCO No. 5-96 BTEX Eliminator	122 acfm	2010
001-05	N/A	AT01	Drip Tank No. 1	2,100 gallons	None
001-09	N/A	Tank 2	Engine Oil Tank No. 1	3,000 gallons	None
001-10	N/A	Tank 3	Engine Oil Tank No. 2	1,050 gallons	None
001-11	N/A	Tank 4	Antifreeze Tank	1,050 gallons	None
001-12	N/A	EG-1*	4.9L Emergency Generator	95 HP	1967

[1]For 45CSR13 permitted sources, the numbering system used for the emission points, control devices, and emission units should be consistent with the numbering system used in the 45CSR13 permit. For grandfathered sources, the numbering system should be consistent with registrations or emissions inventory previously submitted to DAQ. For emission points, control devices, and emissions units which have not been previously labeled, use the following 45CSR13 numbering system: 1S, 2S, 3S,... or other appropriate description for emission units; 1C, 2C, 3C,... or other appropriate designation for control devices; 1E, 2E, 3E, ... or other appropriate designation for emission points.

*This equipment burns pipeline quality natural gas

ATTACHMENT E

Emission Unit Forms

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
1S	Cooper Reciprocating Engine, 2SLB	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Compressor Engine; 2 Stroke Cycle; Lean Burn Engine (Grandfathered with no emission limits)

Manufacturer:	**Model number:**	**Serial number:**
Cooper	GMV-8-TF	N/A
Construction date:	**Installation date:**	**Modification date(s):**
N/A	1967	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 880 hP

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
Grandfathered; No Limits	Grandfathered; No Limits	8,760 hrs

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? _X_Yes ___ No	**If yes, is it?** ___ Indirect Fired _X_Direct Fired
Maximum design heat input and/or maximum horsepower rating: Maximum horsepower rating: 880 hP Grandfathered; No Limits	**Type and Btu/hr rating of burners:** N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
This equipment combusts pipeline quality natural gas only; grandfathered with no emission limits

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline Quality Natural Gas	2,000 grains/ 10^6 scf	NA	1000 Btu/scf

Emissions Data			
Criteria Pollutants	Potential Emissions		
	PPH	TPY	
Carbon Monoxide (CO)	2.374	10.40	
Nitrogen Oxides (NO_X)	23.74	104.0	
Lead (Pb)			
Particulate Matter ($PM_{2.5}$)			
Particulate Matter (PM_{10})			
Total Particulate Matter (TSP)			
Sulfur Dioxide (SO_2)	0.004	0.019	
Volatile Organic Compounds (VOC)	1.846	8.087	
Hazardous Air Pollutants	Potential Emissions		
	PPH	TPY	
Benzene	0.025	0.108	
Formaldehyde	0.510	2.234	
Xylene	0.003	0.014	
Ethylbenzene	0.001	0.002	
Regulated Pollutants other than Criteria and HAP	Potential Emissions		
	PPH	TPY	

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

N/A

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

N/A

Are you in compliance with all applicable requirements for this emission unit? _X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
#2	Clark Reciprocating Engine, 2SLB	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Compressor Engine; 2 Stroke Cycle; Lean Burn Engine (Grandfathered with no emission limits)

Manufacturer:	**Model number:**	**Serial number:**
Clark	HMB-8	N/A
Construction date:	**Installation date:**	**Modification date(s):**
N/A	1967	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 440 hP

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
Grandfathered; No Limits	Grandfathered; No Limits	8,760 hrs

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? _X_Yes ___ No	**If yes, is it?** ___ Indirect Fired _X_Direct Fired
Maximum design heat input and/or maximum horsepower rating: Maximum horsepower rating: 440 hP Grandfathered; No Limits	**Type and Btu/hr rating of burners:** N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
This equipment combusts pipeline quality natural gas only; grandfathered with no emission limits

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline Quality Natural Gas	2,000 grains/ 10^6 scf	NA	1000 Btu/scf

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	1.187	5.199
Nitrogen Oxides (NO_X)	11.87	51.99
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)	0.002	0.010
Volatile Organic Compounds (VOC)	0.923	4.044
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	0.012	0.054
Formaldehyde	0.255	1.117
Xylene	0.002	0.007
Ethylbenzene	0.0002	0.0008
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

N/A

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

N/A

Are you in compliance with all applicable requirements for this emission unit? _X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F.**

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	Emission unit name:	List any control devices associated with this emission unit:
4S	Reboiler – BS&B	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
0.38 MMBtu/hr Heat Input

Manufacturer:	Model number:	Serial number:
BS&B	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
N/A	1968	2009

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 0.38 MMBTu/hr Heat Input

Maximum Hourly Throughput:	Maximum Annual Throughput:	Maximum Operating Schedule:
N/A	N/A	8,760 hrs

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? _X_Yes ___ No	If yes, is it? ___ Indirect Fired _X_Direct Fired
Maximum design heat input and/or maximum horsepower rating: N/A	**Type and Btu/hr rating of burners:** 0.38 MMBtu/hr

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
This equipment combusts pipeline quality natural gas only

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline Quality Natural Gas	2,000 grains/ 10^6 scf	NA	1000 Btu/scf

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.04	0.16
Nitrogen Oxides (NO_X)	0.05	0.19
Lead (Pb)		
Particulate Matter ($PM_{2.5}$)		
Particulate Matter (PM_{10})		
Total Particulate Matter (TSP)		
Sulfur Dioxide (SO_2)		
Volatile Organic Compounds (VOC)	0.3	1.28
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAP	0.05	0.22
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

5.1.2 Maximum Design Heat Input. The maximum design heat input for the BS&B Glycol Reboiler shall not exceed 0.38 MMBtu/hr. [45SCR13, R13-2694B]

5.1.3 The quantity of natural gas that shall be consumed in the 0.38 MMBtu/hr Glycol Reoiler (004) shall not exceed 373 cubic feet per hour or 3.27 x 10^6 cubic feet per year. [45CSR13, R13-2694B]

5.1.4 Maximum emissions from the Glycol Reboiler (001-04) shall not exceed the limits listed above. [45CSR13, R13-2694B]

5.1.7 Recycled reboilers subject to this section shall be designed and operated in accordance with the following: [45CSR13, R13-2694B]

- The vapors/overheads from the still column shall be routed through a closed vent system to the reboiler at all times when there is a potential that vapors (emissions) can be generated from the still column.
- The reboiler shall only be fired with vapors from the still column, and natural gas may be used as supplemental fuel.
- The vapors/overheads from the still column shall be introduced into the flame zone of the reboiler.

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

5.2.3 The permittee shall monitor the natural gas consumed in the BS&B Glycol Reboiler (001-04) on a monthly basis. [45CSR13, R13-2694B]

5.3.3 To demonstrate compliance with section 5.1.3 and 5.1.4, the permittee shall maintain records of the amount of natural gas consumed in the BS&B Glycol Reboiler (004). Said records shall be maintained on site or in a readily accessible off-site location maintained by the permittee for a period of five (5) years. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official. [45CSR13, R13-2694B]

Are you in compliance with all applicable requirements for this emission unit? _X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F.**

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
5S	Still Column – BS&B	1C

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
70 mmscf/day

Manufacturer:	**Model number:**	**Serial number:**
BS&B	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
N/A	1968	2009

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 70 mmscf/day

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
N/A	N/A	8,760 hrs

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? __Yes _X_ No	**If yes, is it?** ___ Indirect Fired __Direct Fired
Maximum design heat input and/or maximum horsepower rating: N/A	**Type and Btu/hr rating of burners:** N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	-	-
Nitrogen Oxides (NO_X)	-	-
Lead (Pb)	-	-
Particulate Matter ($PM_{2.5}$)	-	-
Particulate Matter (PM_{10})	-	-
Total Particulate Matter (TSP)	-	-
Sulfur Dioxide (SO_2)	-	-
Volatile Organic Compounds (VOC)	2.014	8.822
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Total HAP	0.527	2.311
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

5.1.1 Maximum Throughput Limitation. The maximum wet natural gas throughput to the glycol dehydration unit/still column shall not exceed 70 mmscf/day. [45SCR13, R13-2694B]

5.1.5 For purposed of determining potential HAP emissions at transmission and storage facilities to comply with the requirements in Section 4.1.2, the method specified in 40 CFR 63, Subpart HHH shall be used. For purposes of determining potential HAP emissions at production-related facilities, the methods specified in 40 CFR 63, Subpart HH (i.e. excluding compressor engines from HAP PTE) shall be used. [45CSR13, R13-2694B]

5.1.6 The glycol dehydration/still column (005) shall be equipped with a fully functional JATCO BTEX Elimination System (1C) at all times. The JATCO BTEX Elimination System (1C) shall be operated according to manufacturer's specifications, and shall be housed in an enclosed structure in order to prevent the unit from freezing. [45CSR13, R13-2694B]

5.1.7 Recycled reboilers subject to this section shall be designed and operated in accordance with the following: [45CSR13, R13-2694B]

- The vapors/overheads from the still column shall be routed through a closed vent system to the reboiler at all times when there is a potential that vapors (emissions) can be generated from the still column.
- The reboiler shall only be fired with vapors from the still column, and natural gas may be used as supplemental fuel.
- The vapors/overheads from the still column shall be introduced into the flame zone of the reboiler.

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

5.2.1 The permittee shall monitor the throughput of wet natural gas fed to the dehydration system on a monthly basis for the glycol dehydration unit (005). [45CSR13, R13-2694B]

5.2.2 The permittee shall monitor the throughput of liquid gathered in storage from the condenser on a monthly basis. [45CSR13, R13-2694B]

5.3.1 The permittee shall maintain a record of the wet natural gas throughput through the glycol dehydration unit/still column (005) to demonstrate compliance with section 5.1.1 of this permit. Said records shall be maintained for a period of five (5) years on site or in a readily accessible offsite location maintained by the permittee. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official. [45CSR13, R13-2694B]

5.3.2 The permittee shall maintain a record of the condensate gathered from the condenser to demonstrate compliance with section 5.2.2 of this permit. Said records shall be maintained for a period of five (5) years on site or in a readily accessible offsite location maintained by the permittee. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official. [45CSR13, R13-2694B]

Are you in compliance with all applicable requirements for this emission unit? _X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F.**

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
AT01	Drip Tank No. 1	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Above Ground 2,100 gallon drip tank

Manufacturer:	**Model number:**	**Serial number:**
N/A	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
N/A	2006	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 2,100 gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
N/A	N/A	8,760 hrs

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? __Yes _X_ No	**If yes, is it?** ___ Indirect Fired __Direct Fired
Maximum design heat input and/or maximum horsepower rating: N/A	**Type and Btu/hr rating of burners:** N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	-	-
Nitrogen Oxides (NO_X)	-	-
Lead (Pb)	-	-
Particulate Matter ($PM_{2.5}$)	-	-
Particulate Matter (PM_{10})	-	-
Total Particulate Matter (TSP)	-	-
Sulfur Dioxide (SO_2)	-	-
Volatile Organic Compounds (VOC)	0.00155	0.06779
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or <u>construction permit</u> with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included. There is no applicable requirement for tanks because there is no tank equal to or greater than 20,000 gallons at Heizer Compressor Station.
____ Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.) N/A
Are you in compliance with all applicable requirements for this emission unit? _X__Yes ___No If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F.**

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
Tank 2	Engine Oil Tank No. 2	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
3,000 gallon, vertical fixed roof tank

Manufacturer:	**Model number:**	**Serial number:**
N/A	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
N/A	2006	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 3,000 gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
N/A	N/A	8,760 hrs

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? __Yes _X_ No	**If yes, is it?** ___ Indirect Fired __Direct Fired
Maximum design heat input and/or maximum horsepower rating: N/A	**Type and Btu/hr rating of burners:** N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	-	-
Nitrogen Oxides (NO_X)	-	-
Lead (Pb)	-	-
Particulate Matter ($PM_{2.5}$)	-	-
Particulate Matter (PM_{10})	-	-
Total Particulate Matter (TSP)	-	-
Sulfur Dioxide (SO_2)	-	-
Volatile Organic Compounds (VOC)	0.000038	0.00017
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included. There is no applicable requirement for tanks because there is no tank equal to or greater than 20,000 gallons at Heizer Compressor Station.
____ Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.) N/A
Are you in compliance with all applicable requirements for this emission unit? _X__Yes ___No If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F.**

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
Tank 3	Engine Oil Tank No. 2	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
1,050 gallon, vertical fixed roof tank

Manufacturer:	**Model number:**	**Serial number:**
N/A	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
N/A	2006	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1,050 gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
N/A	N/A	8,760 hrs

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? __Yes _X_ No	**If yes, is it?** ___ Indirect Fired __Direct Fired
Maximum design heat input and/or maximum horsepower rating: N/A	**Type and Btu/hr rating of burners:** N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	-	-
Nitrogen Oxides (NO_X)	-	-
Lead (Pb)	-	-
Particulate Matter ($PM_{2.5}$)	-	-
Particulate Matter (PM_{10})	-	-
Total Particulate Matter (TSP)	-	-
Sulfur Dioxide (SO_2)	-	-
Volatile Organic Compounds (VOC)	0.000015	0.000065
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.
There is no applicable requirement for tanks because there is no tank equal to or greater than 20,000 gallons at Heizer Compressor Station.

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)
N/A

Are you in compliance with all applicable requirements for this emission unit? _X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
Tank 4	Antifreeze Tank	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
1,050 gallon, vertical fixed roof tank

Manufacturer:	**Model number:**	**Serial number:**
N/A	N/A	N/A
Construction date:	**Installation date:**	**Modification date(s):**
N/A	2006	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 1,050 gallons

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
N/A	N/A	8,760 hrs

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? __Yes _X_ No	**If yes, is it?** ___ Indirect Fired __Direct Fired
Maximum design heat input and/or maximum horsepower rating: N/A	**Type and Btu/hr rating of burners:** N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
N/A

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
N/A	N/A	N/A	N/A

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	-	-
Nitrogen Oxides (NO_X)	-	-
Lead (Pb)	-	-
Particulate Matter ($PM_{2.5}$)	-	-
Particulate Matter (PM_{10})	-	-
Total Particulate Matter (TSP)	-	-
Sulfur Dioxide (SO_2)	-	-
Volatile Organic Compounds (VOC)	0.000001	0.000005
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY
N/A	N/A	N/A

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements
List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included. There is no applicable requirement for tanks because there is no tank equal to or greater than 20,000 gallons at Heizer Compressor Station.
____ Permit Shield
For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.) N/A
Are you in compliance with all applicable requirements for this emission unit? _X__Yes ___No If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT E - Emission Unit Form

Emission Unit Description

Emission unit ID number:	**Emission unit name:**	**List any control devices associated with this emission unit:**
#1	4.9L Emergency Generator	N/A

Provide a description of the emission unit (type, method of operation, design parameters, etc.):
Generator Engine; 4 Stroke Cycle; Lean Burn Engine natural gas fired

Manufacturer:	**Model number:**	**Serial number:**
Ford	4.9L	CSG-6491-6005A
Construction date:	**Installation date:**	**Modification date(s):**
N/A	1967	N/A

Design Capacity (examples: furnaces - tons/hr, tanks - gallons): 95 hP

Maximum Hourly Throughput:	**Maximum Annual Throughput:**	**Maximum Operating Schedule:**
780 scf/hr	0.39 MMscf/yr	500 hrs

Fuel Usage Data **(fill out all applicable fields)**

Does this emission unit combust fuel? _X_Yes ___ No	**If yes, is it?** ___ Indirect Fired _X_Direct Fired
Maximum design heat input and/or maximum horsepower rating: Maximum horsepower rating: 95 hP	**Type and Btu/hr rating of burners:** N/A

List the primary fuel type(s) and if applicable, the secondary fuel type(s). For each fuel type listed, provide the maximum hourly and annual fuel usage for each.
This equipment combusts pipeline quality natural gas only; grandfathered with no emission limits

Describe each fuel expected to be used during the term of the permit.

Fuel Type	Max. Sulfur Content	Max. Ash Content	BTU Value
Pipeline Quality Natural Gas	2,000 grains/ 10^6 scf	NA	1000 Btu/scf

Emissions Data		
Criteria Pollutants	Potential Emissions	
	PPH	TPY
Carbon Monoxide (CO)	0.43	0.11
Nitrogen Oxides (NO_X)	0.07	0.02
Lead (Pb)	-	-
Particulate Matter ($PM_{2.5}$)	0.00006	0.00002
Particulate Matter (PM_{10})	0.00006	0.00002
Total Particulate Matter (TSP)	0.00006	0.00002
Sulfur Dioxide (SO_2)	0.0005	0.0001
Volatile Organic Compounds (VOC)	0.09	0.02
Hazardous Air Pollutants	Potential Emissions	
	PPH	TPY
Benzene	0.0003	0.0001
Formaldehyde	0.04	0.01
Other HAP	0.06	0.02
Regulated Pollutants other than Criteria and HAP	Potential Emissions	
	PPH	TPY

List the method(s) used to calculate the potential emissions (include dates of any stack tests conducted, versions of software used, source and dates of emission factors, etc.).

Applicable Requirements

List all applicable requirements for this emission unit. For each applicable requirement, include the underlying rule/regulation citation and/or construction permit with the condition number. (*Note: Title V permit condition numbers alone are not the underlying applicable requirements*). If an emission limit is calculated based on the type of source and design capacity or if a standard is based on a design parameter, this information should also be included.

N/A

____ Permit Shield

For all applicable requirements listed above, provide monitoring/testing/recordkeeping/reporting which shall be used to demonstrate compliance. If the method is based on a permit or rule, include the condition number or citation. (Note: Each requirement listed above must have an associated method of demonstrating compliance. If there is not already a required method in place, then a method must be proposed.)

N/A

Are you in compliance with all applicable requirements for this emission unit? _X__Yes ___No

If no, complete the **Schedule of Compliance Form** as **ATTACHMENT F**.

ATTACHMENT G

Air Pollution Control Device Forms

ATTACHMENT G - Air Pollution Control Device Form

Control device ID number: 1C	**List all emission units associated with this control device.** BS&B Still Column	
Manufacturer: JATCO	**Model number:** No. 5-96 BTEX Eliminator	**Installation date:** 11/09

Type of Air Pollution Control Device:

___ Baghouse/Fabric Filter	___ Venturi Scrubber	___ Multiclone
___ Carbon Bed Adsorber	___ Packed Tower Scrubber	___ Single Cyclone
___ Carbon Drum(s)	___ Other Wet Scrubber	___ Cyclone Bank
___ Catalytic Incinerator	_X_ Condenser	___ Settling Chamber
___ Thermal Incinerator	___ Flare	__ Other (describe) _Oxidation Catalyst
___ Wet Plate Electrostatic Precipitator		___ Dry Plate Electrostatic Precipitator

List the pollutants for which this device is intended to control and the capture and control efficiencies.

Pollutant	Capture Efficiency	Control Efficiency
NOx	100%	99%
CO	100%	99%
VOC	100%	99%
SO2	100%	99%

Explain the characteristic design parameters of this control device (flow rates, pressure drops, number of bags, size, temperatures, etc.).

Maximum Combustion Temperature of 1600 °F.

Total Rate Btu/hr burned (includes waste gas) is 1,101,600

Flare Capacity 850 scf/hr

Burner Rating 1,101,600 Btu/hr
Pilot Light 44,000 Btu/hr

Is this device subject to the CAM requirements of 40 C.F.R. 64? ___ Yes _X_ No

If Yes, **Complete ATTACHMENT H**

If No, **Provide justification.**

Describe the parameters monitored and/or methods used to indicate performance of this control device.

4.1.2 The permittee shall, to the extent practicable, install, maintain, and operate JATCO BTEX Elimination System (1C) and associated monitoring equipment in a manner consistent with safety and good air pollution control practices for minimizing emissions or comply with any more stringent limits set forth in this permit or a set forth by any State rule, Federal regulation, or alternative control plan approved by the Secretary. [45CSR13, R13-2694D, 4.1.3]

4.4.1 For the JATCO BTEX Elimination System (1C), the permittee shall maintain records of the occurrence and duration of any malfunction or operational shutdown of the air pollution control equipment during which excess emissions occur. For each such case, the following information shall be recorded:

a. The equipment involved.
b. Steps taken to minimize emissions during the event.
c. The duration of the event.
d. The estimated increase in emissions during the event

For each such case associated with an equipment malfunction, the additional information shall also be recorded:

e. The cause of the malfunction.
f. Steps taken to correct the malfunction.
g. Any changes or modifications to equipment or procedures that would help prevent future recurrences of the malfunction. [45SCF13, R13-2694B, 4.1.4]

5.1.6. The glycol dehydration unit/still column (5S) shall be equipped with a fully functional JATCO BTEX Elimination System (1C) at all times. The JATCO BTEX Elimination System (1C) shall be operated according to manufacturer's specifications, and shall be housed in an enclosed structure in order to prevent the unit from freezing. [45SCF13, R13-2694B, 5.1.6]

5.2.1. The permittee shall monitor the throughput of wet natural gas fed to the dehydration system on a monthly basis for the glycol dehydration unit (5S). [45SCF13, R13-2694B, 5.2.1]

5.2.2. The permittee shall monitor the throughput of liquid gathered in storage from the condenser on a monthly basis. [45SCF13, R13-2694B, 5.2.2]

5.2.3. The permittee shall monitor the natural gas consumed in the BS&B Glycol Reboiler (001-04) on a monthly basis. [45SCF13, R13-2694B, 5.2.3]

5.2.4. The permittee shall monitor the temperature of the enclosed building in which the JATCO BTEX Elimination System (1C) is housed on a monthly basis. [45SCF13, R13-2694B, 5.2.4]

5.4.1. The permittee shall maintain a record of the wet natural gas throughput through the glycol dehydration unit/still column (5S) to demonstrate compliance with section 5.1.1 of this permit. Said records shall be maintained for period of five (5) years on site or in a readily accessible off-site location maintained by the permittee. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official. [45SCF13, R13-2694B, 5.3.1]

5.4.2. The permittee shall maintain a record of the condensate gathered from the condenser to demonstrate compliance with section 5.2.2 of this permit. Said records shall be maintained for period of five (5) years on site or in a readily accessible off-site location maintained by the permittee. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official. [45SCF13, R13-2694B, 5.3.2]

5.4.3. To demonstrate compliance with sections 5.1.3 and 5.1.4, the permittee shall maintain records of the amount of natural gas consumed in the BS&B Glycol Reboiler (001-04). Said records shall be maintained for period of five (5) years on site or in a readily accessible off-site location maintained by the permittee. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official. [45SCF13, R13-2694B, 5.3.3]

5.1.6. To demonstrate compliance with sections 5.1.6, the permittee shall maintain records of the temperature for the enclosed building in which the JATCO BTEX Elimination System (1C) is housed. Said records shall be maintained for period of five (5) years on site or in a readily accessible off-site location maintained by the permittee. Said records shall be readily available to the Director of the Division of Air Quality or his/her duly authorized representative for expeditious inspection and review. Any records submitted to the agency pursuant to a requirement of this permit or upon request by the Director shall be certified by a responsible official. [45SCF13, R13-2694B, 5.3.4]

ATTACHMENT H

CAM Plan

ATTACHMENT H - Compliance Assurance Monitoring (CAM) Plan Form

For definitions and information about the CAM rule, please refer to 40 CFR Part 64. Additional information (including guidance documents) may also be found at http://www.epa.gov/ttn/emc/cam.html

CAM APPLICABILITY DETERMINATION

1) Does the facility have a PSEU (Pollutant-Specific Emissions Unit considered separately with respect to **EACH** regulated air pollutant) that is subject to CAM (40 CFR Part 64), which must be addressed in this CAM plan submittal? To determine applicability, a PSEU must meet **all** of the following criteria (*If No, then the remainder of this form need not be completed*): ☐ YES ☒ NO

a. The PSEU is located at a major source that is required to obtain a Title V permit;

b. The PSEU is subject to an emission limitation or standard for the applicable regulated air pollutant that is NOT exempt;

LIST OF EXEMPT EMISSION LIMITATIONS OR STANDARDS:

- NSPS (40 CFR Part 60) or NESHAP (40 CFR Parts 61 and 63) proposed after 11/15/1990.
- Stratospheric Ozone Protection Requirements.
- Acid Rain Program Requirements.
- Emission Limitations or Standards for which a WVDEP Division of Air Quality Title V permit specifies a continuous compliance determination method, as defined in 40 CFR §64.1.
- An emission cap that meets the requirements specified in 40 CFR §70.4(b)(12).

c. The PSEU uses an add-on control device (as defined in 40 CFR §64.1) to achieve compliance with an emission limitation or standard;

d. The PSEU has potential pre-control device emissions of the applicable regulated air pollutant that are equal to or greater than the Title V Major Source Threshold Levels; AND

e. The PSEU is NOT an exempt backup utility power emissions unit that is municipally-owned.

BASIS OF CAM SUBMITTAL

2) Mark the appropriate box below as to why this CAM plan is being submitted as part of an application for a Title V permit:

☐ RENEWAL APPLICATION. **ALL** PSEUs for which a CAM plan has NOT yet been approved need to be addressed in this CAM plan submittal.

☐ INITIAL APPLICATION (submitted after 4/20/98). **ONLY** large PSEUs (i. e., PSEUs with potential post-control device emissions of an applicable regulated air pollutant that are equal to or greater than Major Source Threshold Levels) need to be addressed in this CAM plan submittal.

☐ SIGNIFICANT MODIFICATION TO LARGE PSEUs. **ONLY** large PSEUs being modified after 4/20/98 need to be addressed in this cam plan submittal. For large PSEUs with an approved CAM plan, Only address the appropriate monitoring requirements affected by the significant modification.

3) [a] BACKGROUND DATA AND INFORMATION

Complete the following table for **all** PSEUs that need to be addressed in this CAM plan submittal. This section is to be used to provide background data and information for each PSEU In order to supplement the submittal requirements specified in 40 CFR §64.4. If additional space is needed, attach and label accordingly.

PSEU DESIGNATION	DESCRIPTION	POLLUTANT	CONTROL DEVICE	[b] EMISSION LIMITATION or STANDARD	[c] MONITORING REQUIREMENT
EXAMPLE Boiler No. 1	Wood-Fired Boiler	PM	Multiclone	45CSR§2-4.1.c.; 9.0 lb/hr	Monitor pressure drop across multiclone: Weekly inspection of multiclone

[a] If a control device is common to more than one PSEU, one monitoring plan may be submitted for the control device with the affected PSEUs identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a). If a single PSEU is controlled by more than one control device similar in design and operation, one monitoring plan for the applicable control devices may be submitted with the applicable control devices identified and any conditions that must be maintained or monitored in accordance with 40 CFR §64.3(a).

[b] Indicate the emission limitation or standard for any applicable requirement that constitutes an emission limitation, emission standard, or standard of performance (as defined in 40 CFR §64.1).

[c] Indicate the monitoring requirements for the PSEU that are required by an applicable regulation or permit condition.

CAM MONITORING APPROACH CRITERIA			
Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide monitoring data and information for EACH indicator selected for EACH PSEU in order to meet the monitoring design criteria specified in 40 CFR §64.3 and §64.4. if more than two indicators are being selected for a PSEU or if additional space is needed, attach and label accordingly with the appropriate PSEU designation, pollutant, and indicator numbers.			
4a) PSEU Designation:	**4b) Pollutant:**	**4c) [a] Indicator No. 1:**	**4d) [a] Indicator No. 2:**
5a) GENERAL CRITERIA Describe the MONITORING APPROACH used to measure the indicators:			
[b] Establish the appropriate INDICATOR RANGE or the procedures for establishing the indicator range which provides a reasonable assurance of compliance:			
5b) PERFORMANCE CRITERIA Provide the SPECIFICATIONS FOR OBTAINING REPRESENTATIVE DATA, such as detector location, installation specifications, and minimum acceptable accuracy:			
[c] For new or modified monitoring equipment, provide VERIFICATION PROCEDURES, including manufacturer's recommendations, TO CONFIRM THE OPERATIONAL STATUS of the monitoring:			
Provide QUALITY ASSURANCE AND QUALITY CONTROL (QA/QC) PRACTICES that are adequate to ensure the continuing validity of the data, (i.e., daily calibrations, visual inspections, routine maintenance, RATA, etc.):			
[d] Provide the MONITORING FREQUENCY:			
Provide the DATA COLLECTION PROCEDURES that will be used:			
Provide the DATA AVERAGING PERIOD for the purpose of determining whether an excursion or exceedance has occurred:			

[a] Describe all indicators to be monitored which satisfies 40 CFR §64.3(a). Indicators of emission control performance for the control device and associated capture system may include measured or predicted emissions (including visible emissions or opacity), process and control device operating parameters that affect control device (and capture system) efficiency or emission rates, or recorded findings of inspection and maintenance activities.

[b] Indicator Ranges may be based on a single maximum or minimum value or at multiple levels that are relevant to distinctly different operating conditions, expressed as a function of process variables, expressed as maintaining the applicable indicator in a particular operational status or designated condition, or established as interdependent between more than one indicator. For CEMS, COMS, or PEMS, include the most recent certification test for the monitor.

[c] The verification for operational status should include procedures for installation, calibration, and operation of the monitoring equipment, conducted in accordance with the manufacturer's recommendations, necessary to confirm the monitoring equipment is operational prior to the commencement of the required monitoring.

[d] Emission units with post-control PTE ≥ 100 percent of the amount classifying the source as a major source (i.e., Large PSEU) must collect four or more values per hour to be averaged. A reduced data collection frequency may be approved in limited circumstances. Other emission units must collect data at least once per 24 hour period.

RATIONALE AND JUSTIFICATION

Complete this section for **EACH** PSEU that needs to be addressed in this CAM plan submittal. This section may be copied as needed for each PSEU. This section is to be used to provide rationale and justification for the selection of EACH indicator and monitoring approach and EACH indicator range in order to meet the submittal requirements specified in 40 CFR §64.4.

6a) PSEU Designation:	6b) Regulated Air Pollutant:

7) **INDICATORS AND THE MONITORING APPROACH**: Provide the rationale and justification for the selection of the indicators and the monitoring approach used to measure the indicators. Also provide any data supporting the rationale and justification. Explain the reasons for any differences between the verification of operational status or the quality assurance and control practices proposed, and the manufacturer's recommendations. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

8) **INDICATOR RANGES**: Provide the rationale and justification for the selection of the indicator ranges. The rationale and justification shall indicate how **EACH** indicator range was selected by either a COMPLIANCE OR PERFORMANCE TEST, a TEST PLAN AND SCHEDULE, or by ENGINEERING ASSESSMENTS. Depending on which method is being used for each indicator range, include the specific information required below for that specific indicator range. (If additional space is needed, attach and label accordingly with the appropriate PSEU designation and pollutant):

- COMPLIANCE OR PERFORMANCE TEST (Indicator ranges determined from control device operating parameter data obtained during a compliance or performance test conducted under regulatory specified conditions or under conditions representative of maximum potential emissions under anticipated operating conditions. Such data may be supplemented by engineering assessments and manufacturer's recommendations). The rationale and justification shall INCLUDE a summary of the compliance or performance test results that were used to determine the indicator range, and documentation indicating that no changes have taken place that could result in a significant change in the control system performance or the selected indicator ranges since the compliance or performance test was conducted.

- TEST PLAN AND SCHEDULE (Indicator ranges will be determined from a proposed implementation plan and schedule for installing, testing, and performing any other appropriate activities prior to use of the monitoring). The rationale and justification shall INCLUDE the proposed implementation plan and schedule that will provide for use of the monitoring as expeditiously as practicable after approval of this CAM plan, except that in no case shall the schedule for completing installation and beginning operation of the monitoring exceed 180 days after approval.

- ENGINEERING ASSESSMENTS (Indicator Ranges or the procedures for establishing indicator ranges are determined from engineering assessments and other data, such as manufacturers' design criteria and historical monitoring data, because factors specific to the type of monitoring, control device, or PSEU make compliance or performance testing unnecessary). The rationale and justification shall INCLUDE documentation demonstrating that compliance testing is not required to establish the indicator range.

RATIONALE AND JUSTIFICATION:

APPENDIX A

Electronic Submittal